

VEO



MARINE POWER

ADVANCED MARINE APPROVED SOLUTIONS

VEO delivers standardized and customized electrification systems and drives for demanding offshore and ship applications.

Deliveries typically include preliminary design and dimensioning, manufacturing and engineering, as well as installation supervision, commissioning and user training.

Our marine solutions are based on our own switchboard constructions and marine approved components as well as products and services all delivered on a turnkey basis. VEO's scope of supply includes main and distribution switchboards, motor control centers, electric drives applications for prime movers <5000 kW, thrusters or winches. Other products provided by VEO are protection equipment, transformers, motors and cooling/heat exchanger equipment.

Designed for safety and easy maintenance

Our products have been purpose-designed to ensure high operational and personnel safety levels. In addition, system quality can be guaranteed by the careful selection of materials and components. Straightforward structural design that allows quick disassembly and re-assembly, ensure simple and economical maintenance of the switchgears.

To ensure the flexibility of our production and deliveries, we use only components from globally recognised manufacturers. This enables us to ensure the highest quality of maintenance and after-sales services within each of our areas of operation worldwide. Our drives expertise is based on long-standing experience and cooperation with leading frequency converter manufacturers and our partner network.

	PROJECT	PRODUCTS	SHIP TYPE	COUNTRY	YEAR
References	QURBAN ABASOV	<ul style="list-style-type: none"> Main propulsion, 2*1700 kW Bow thruster, 2*400 kW 	Service ship	Azerbaijan	2009
	N1025	<ul style="list-style-type: none"> Main propulsion, 2*2500 kW Pump jet thruster 2332 kW Retractable thruster 1350 kW 	ORV ship	South Korea	2014 - 2016
	ICE GOING SUPPLY VESSEL 1-4	<ul style="list-style-type: none"> VEDA switchboards MS1, MS2, GS1, MCC1 & MCC2, ES11-ES13, SC1 & SC2 	Icebreaking standby vessel	Russia	2014 - 2016
	MEIN SCHIFF 5-8	<ul style="list-style-type: none"> VEDA switchboards MS1&2, MS3&4 GMS1, GMS2 MCC1, MCC2, MCC3 & MCC4 ES1 and ES2 9121T5 & 9121T6 	Cruise ship	Germany	2014-2017
	MULTIDISCIPLINARY FISHERIES RESEARCH VESSEL	<ul style="list-style-type: none"> VEDA switchboards MS1 MS2, MCC1-2, ES, SC Shaft generators 2x870kVA/696kW Bow thruster 1x 450kW 	Research vessel	Namibia	2012
	DOUBLE ENDED FERRY	<ul style="list-style-type: none"> VEDA switchboards MS11, MS12, MS21, MS22, MCC1 & MCC2 ES11-ES13, SC1 & SC2 Main propulsion drive & motor with PDCU Liquid cooled, 1300kW Harmonic filter units 	Ferry 2012	Finland	2011
	AURA 2	<ul style="list-style-type: none"> VEDA switchboard PS1, MS1, MCC's, ES Main propulsion drive & motor with PDCU liquid cooled, 1400kW Main generators 3x1500kVA/1200kW Bow thruster motor with soft-starter 2x 450kW Transformers and harmonic filter units 	MPV ship	Finland	2011



MARINE LOW VOLTAGE SWITCHGEAR VEDA 5000

The VEDA 5000 low voltage switchgear is tested and designed for maximum reliability, safety, serviceability and usability. The VEDA 5000 low voltage switchgear can be implemented in fuseless configurations using a space saving solution based on Form2 partitioning.

The standard protection class of VEDA Marine low voltage switchgear is IP22. With some modifications protection classes up to IP54 can be achieved.

The system's functional quality is the result of careful selection of materials and components, and the right combination of electrotechnical applications and proven cooling technology. The system's exceptional safety is based on effective arc pressure control, internal compartmentation and systematic locking.

VEDA 5000 is certified by SGS Fimko. Design verification and type-testing has also been extended to ensure that our switchgears comprehensively meet the special requirements set by IEC/EN standards 60439 and 61439-1-2: 2009 and IEC 60092-302. VEDA as a product fulfills the safety requirements of LVD (2006/95/EY) and has also gone through additional testing to ensure it meets the national safety regulations and special requirements of marine and offshore applications.

POWER, ELECTRICITY AND EFFICIENCY



POWER GENERATION

Power plant automation and electrification solutions

POWER DISTRIBUTION

Substations and switchgears for transmission and distribution networks

POWER UTILISATION

Industrial electrification and automation



VEO's strength lies in our ability to operate in two different capacities - as a total supplier and as a systems supplier. As a turnkey supplier, we deliver anything from the smallest piece of equipment up to the electricity for an entire power plant, factory or vessel.

Thanks to the flexibility in our choice of technology and products, we have formed cooperation agreements with many of the leading international manufacturers in the field. Collaboration with partners enables us to create the best possible customized solutions based on cost-efficiency, timely performance and high quality.

VEO is an expert in the energy sector offering automation and electrification solutions for energy production, transmission, distribution and consumption. More than half of the company's MEUR 74 turnover comes from renewable energy solutions. VEO's main office and most of its 350 employees are located in Vaasa, Finland.

VEO

VEO Oy Runsorintie 5, 65380 Vaasa, FINLAND, +358 207 1901, veo@veo.fi, www.veo.fi